

Remarks

A response to the Office Action dated October 24, 2001 was filed on January 14, 2002 entitled "Response 'A' to First Office Action." This supplement amends the new claims 28 and 29 that were added in "Response A" and further adds new dependent claims 40 and 41. Applicant has included a version of the claims with marking to show the amendments as Appendix A. A clean copy of all the claims added in "Response A" with the amendments shown above is also included as Appendix B.

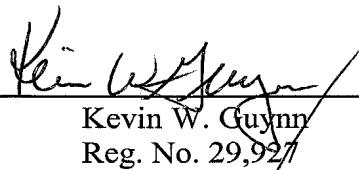
Any questions should be directed to the undersigned.

Respectfully submitted,

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February 20, 2002

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APPENDIX A

VERSION WITH MARKINGS TO SHOW CHANGES MADE IN CLAIMS

28. (Amended) An arrangement according to claim [27,]22, further including a second electrically conductive strip extending from the first excitation electrode to the lateral surface, and the second mounting element having a second electrical contact surface that operably contacts the second electrically conductive strip when the piezoelectric element is clamped between the first and second mounting elements, wherein the first and second electrical contact surfaces are operably connected to means for measuring electrical resistance.

29. (Amended) An arrangement according to claim [27]22, further including a second electrically conductive strip extending from the first excitation electrode to the lateral surface, and the second mounting element having a second electrical contact surface that operably contacts the second electrically conductive strip when the piezoelectric element is clamped between the first and second mounting elements, wherein the first and second electrical contact surfaces are operably connected to means for production and regulation of current flow.

APPENDIX B

CLEAN COPY OF PENDING CLAIMS WITH THE AMENDMENTS MADE ABOVE

21. A piezoelectric resonator arrangement comprising:
- a mount having a first mounting element and a second mounting element, the first mounting element having a first electrical contact surface; and
- a piezoelectric resonator having an electrical contact point provided on a lateral surface of the resonator;
- the piezoelectric resonator being clamped, without the use of adhesive, in a plane between the first mounting element and the second mounting element, each of the first and second mounting elements abutting at least one lateral surface of the resonator such that the first electrical contact surface operably contacts the first electrical contact point, whereby the first mounting element presses on the piezoelectric resonator with a first mounting force and the first mounting force lies essentially in-plane with the piezoelectric resonator.
22. An arrangement according to claim 21 wherein the piezoelectric resonator has a first excitation electrode and a first electrically conductive strip extending from the first excitation electrode to the lateral surface whereby the first electrical contact surface operably contacts the first electrically conductive strip when the piezoelectric element is clamped between the first and second mounting elements.
23. An arrangement according to claim 22, wherein the first electrically conductive strip extends radially from the first excitation electrode to the lateral surface.
24. An arrangement according to claim 21 wherein the first mounting force is directed essentially radially to a center of the resonator.

25. An arrangement according to claim 21 wherein the second mounting element presses on the piezoelectric resonator with a second mounting force and the second mounting force is essentially in one plane with the piezoelectric resonator.

26. An arrangement according to claim 25 wherein the piezoelectric resonator has a second excitation electrode and a second electrically conductive strip extending from the second excitation electrode to a lateral surface.

27. An arrangement according to claim 26 wherein the second mounting element has a second contact surface, wherein the second electrical contact surface operably contacts the second electrically conductive strip when the piezoelectric element is clamped between the first and second mounting elements.

28. An arrangement according to claim 22, further including a second electrically conductive strip extending from the first excitation electrode to the lateral surface, and the second mounting element having a second electrical contact surface that operably contacts the second electrically conductive strip when the piezoelectric element is clamped between the first and second mounting elements, wherein the first and second electrical contact surfaces are operably connected to means for measuring electrical resistance.

29. An arrangement according to claim 22, further including a second electrically conductive strip extending from the first excitation electrode to the lateral surface, and the second mounting element having a second electrical contact surface that operably contacts the second electrically conductive strip when the piezoelectric element is clamped between the first and second mounting elements, wherein the first and second electrical contact surfaces are operably connected to means for production and regulation of current flow.

30. An arrangement according to claim 21, wherein at least one of the first and second mounting elements is mounted on a base in an elastically resilient fashion.

31. An arrangement according to claim 21, wherein at least one of the first and second mounting elements is connected with a base structure in an elastically resilient fashion.

32. An arrangement according to claim 21, wherein at least one of the first and second mounting elements is made up of an essentially rigid part and an essentially elastic part, whereby the elastic part is located closer to a base structure on which the mounting element is mounted.

33. An arrangement according to claim 21, wherein at least one of the first and second mounting elements is constructed as an oblong mounting arm having at least one essentially rigid longitudinal segment and one essentially elastically deformable segment.

34. An arrangement according to claim 21, wherein at least one essentially rigid mounting element is mounted in a resilient fashion to the base structure by means of an elastic element.

35. An arrangement according to claim 21, wherein the first and second mounting elements are positioned to determine a definite orientation of the installed resonator.

36. An arrangement according to claim 21, wherein at least one of the first and second mounting elements is manufactured from ceramic material.

37. An arrangement according to claim 36, wherein the first and second mounting elements are mounted on a base structure and the base structure is manufactured from a ceramic material.

38. An arrangement according to claim 37, wherein the first mounting element, the second mounting element and the base structure collectively comprise a one-piece construction.

39. An arrangement according to claim 21, wherein the first electrical contact surface is made of direct coatings of electrically conductive materials.

40. An arrangement according to claim 35, wherein the first and second mounting element each have a structure to mount the piezoelectric resonator.

41. An arrangement according to claim 40, wherein the structure is a stepped region.